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Indlæg om BIM i et internationalt perspektiv

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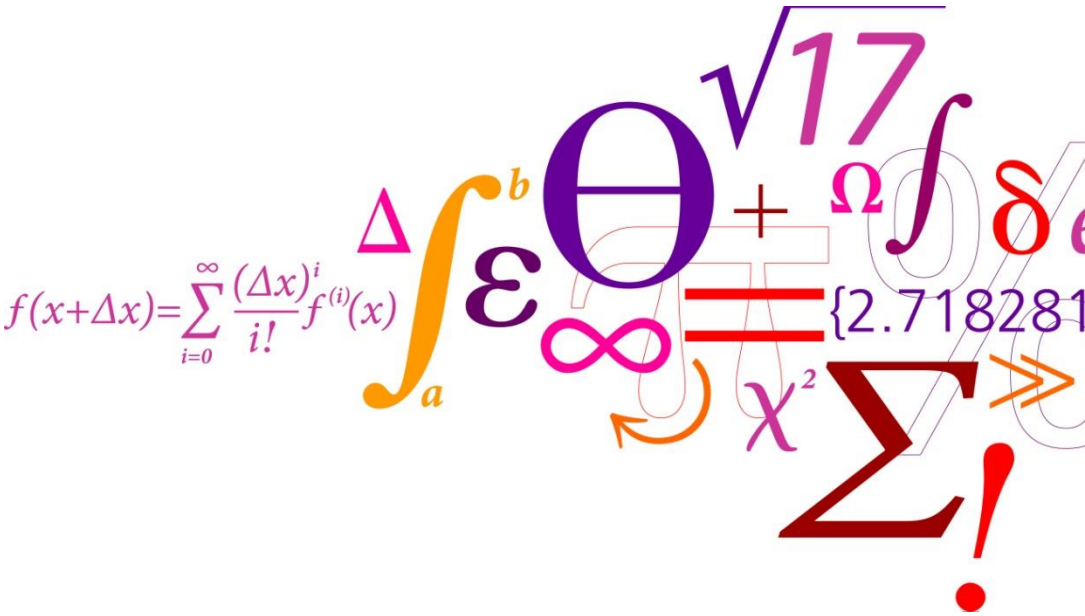
DKBI Workshop, NCC, 30 sep. 2014

Indlæg om BIM i et internationalt perspektiv

Jan Karlshøj, DTU Byg



DTU Byg
Institut for Byggeri og Anlæg

Profil

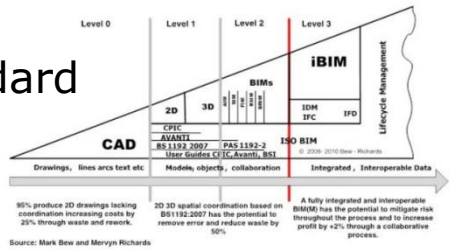
- DTU Byg
  - Sektionsleder Bygningsdesign
  - Lektor
- buildingSMART
  - International IDM Coordinator/Leder af Process Room
  - Nordisk formand
  - Medlem af buildingSMART Forum i bips
- Bips
  - Medlem af styregruppe
- Standardisering
  - TC59/SC13/WG 8 & 13
  - CEN BT WG 215
  - DS S-808
- Gravicon
  - Konsulentvirksomhed
  - Fokus på buildingSMART relaterede ydelser

Internationalt perspektiv

- Deltagelse i buildingSMART siden 1996
  - Norden
  - Internationale møde i Europa, Nordamerika, Mellemøsten, Asien og Australien
- Innovation platform
- Videnskabelige konferencer
- Intergraph og Bentley brugermøder i USA – mange år siden

Open BIM

- Danmark: Bygherrekrav siden 2007, seneste revision 2013
- Norge: Krav om open BIM i 2016
- UK: BIM Level 2 i 2016
- Nyt nationalt initiativ i Tyskland med fokus på åbne standard
- Frankrig rører også på sig
- Holland er i gang med krav
- Amerikanske stater
- Korea, 28.2M$ projekt med fokus på open BIM
- Singapore startede tidligt



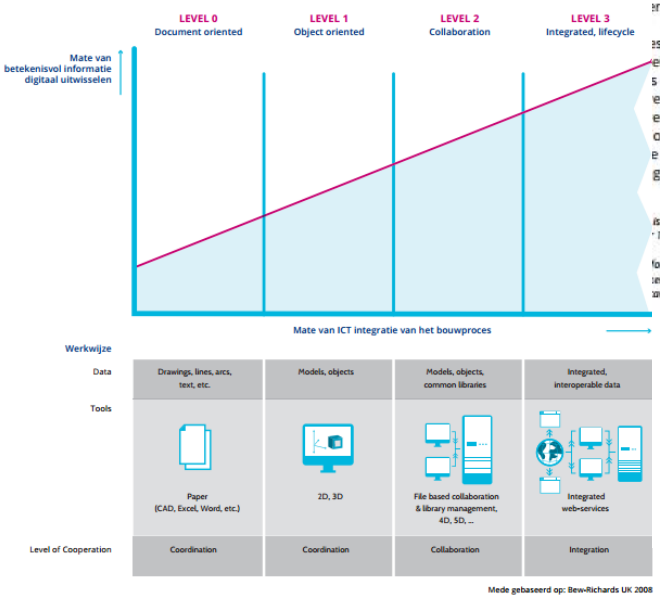
IFC, IDM, MVD, bSDD og BCF

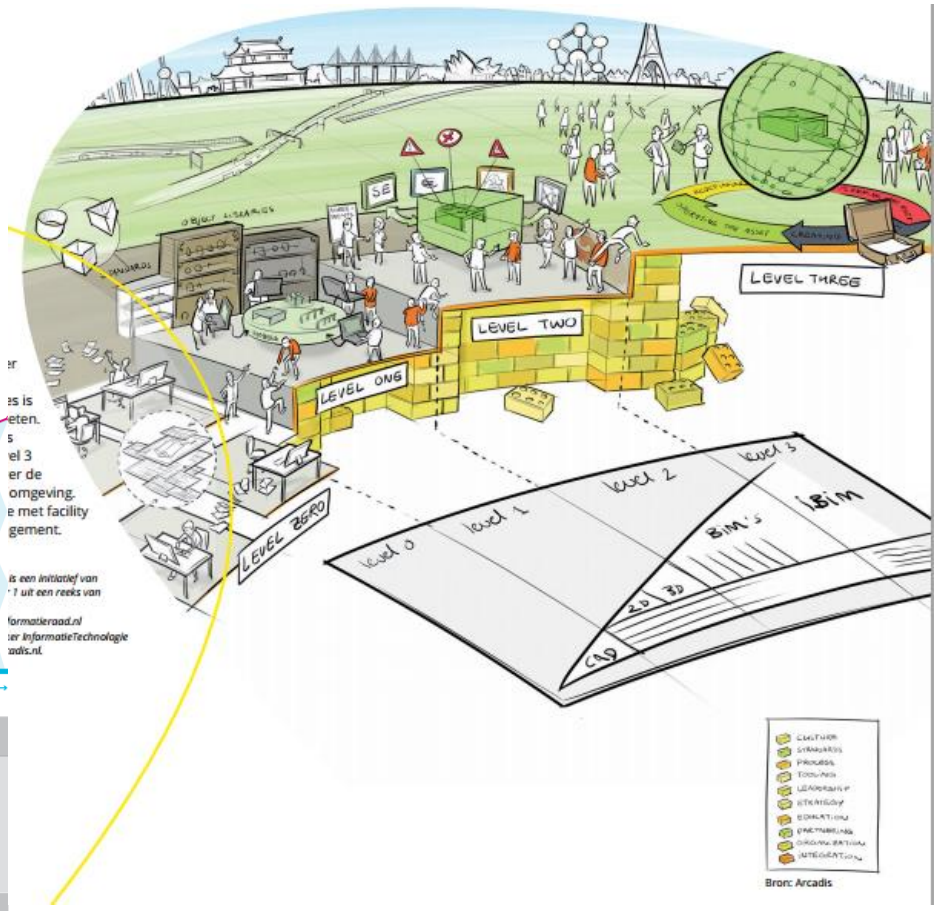
About buildingSMART

BuildingSMART is a world-wide alliance driving the development of open internationally-recognised standards, tools and training to support the wider use of Building Information Modelling (BIM) across the architecture, engineering and construction (AEC) and facilities management (FM) industries.

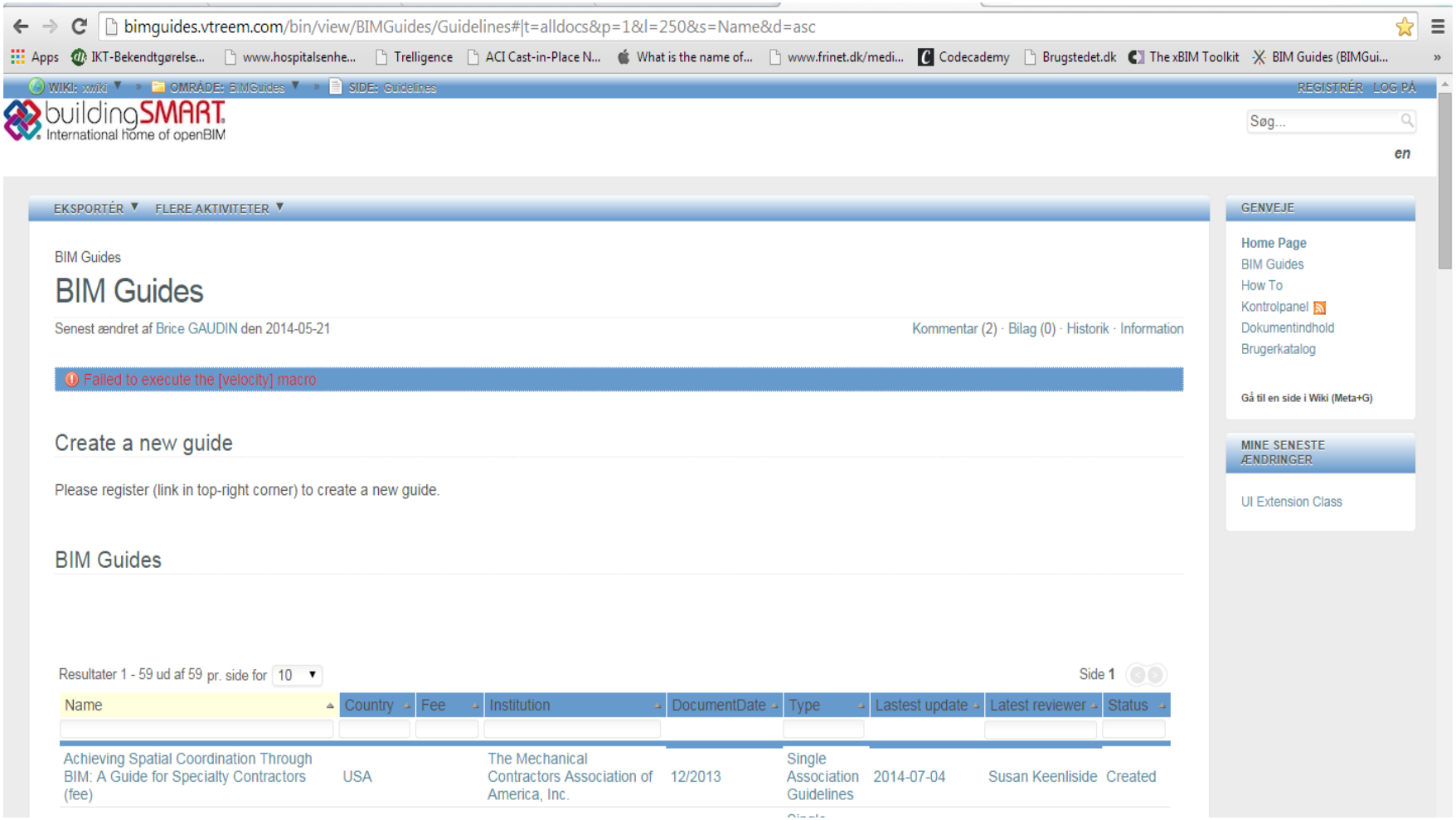
Netherlands

- http://www.bouwinformatieraad.nl/wp-content/uploads/2014/04/Kenniskaart001.pdf





BIM Guidelines: 59 registreret



Finland: COBIM

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buildingSMART Finland

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Common BIM Requirements 2012

Common BIM Requirement 2012, COBIM, is based on the BIM Requirements published by Senate Properties published in. The update project was funded by Senate Properties in addition to several other real estate owners and developers, construction companies and software vendors. BuildingSMART Finland participated also in the financing of the project. As a result, the updated Series 1-9 and new Series 10-13 were released in Finnish on March 27th 2012.

Series 1: General part

Series 2: Modeling of the starting situation

Series 3: Architectural design

Series 4: MEP design

Series 5: Structural design

Series 6: Quality assurance

Series 7: Quantity take-off

Series 8: Use of models for visualization

Series 9: Use of models in MEP analyses

Series 10: Energy analysis

Series 11: Management of a BIM project

Series 12: Use of models in facility management

Series 13: Use of models in construction

COBIM 2012 in English

The Common BIM Requirements, that were published March 27th 2012, are now available also in English. Click on the link COBIM 2012 in the menu.

News

5/23/13
Reijo Hänninen was elected to Deputy Chair of buildingSMART International
Read more »

3/25/13
IFC4 released!
Read more »

3/17/13
IC meeting in May moved to Helsinki, Finland
Read more »

Contact

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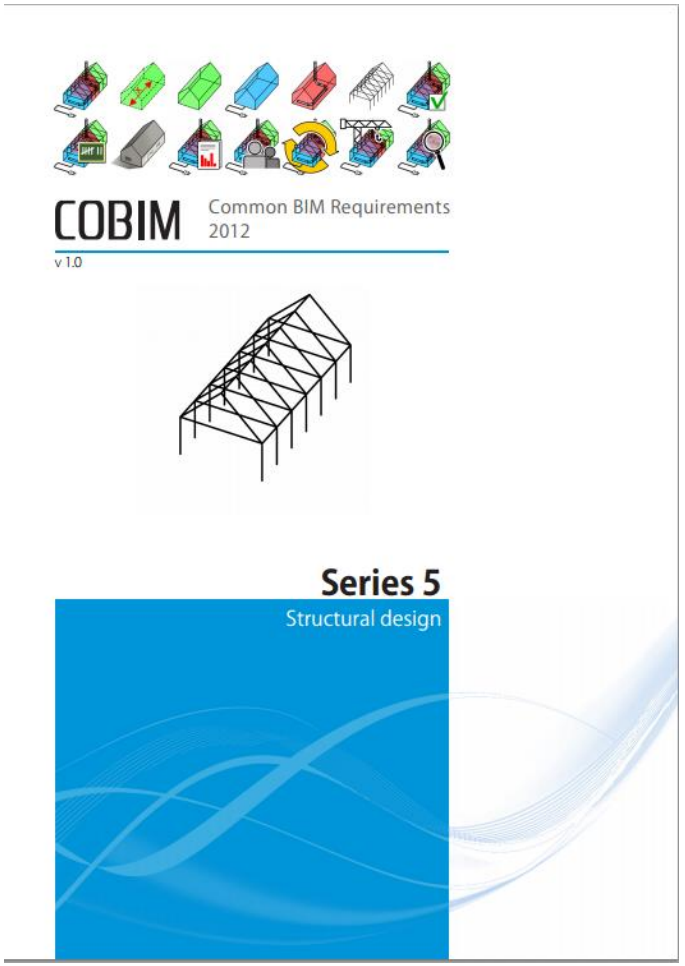
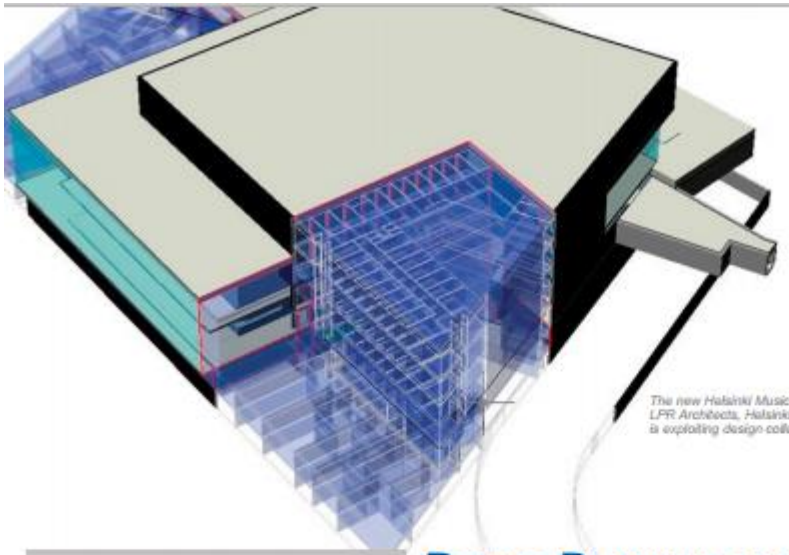
PL 1004
00101 Helsinki

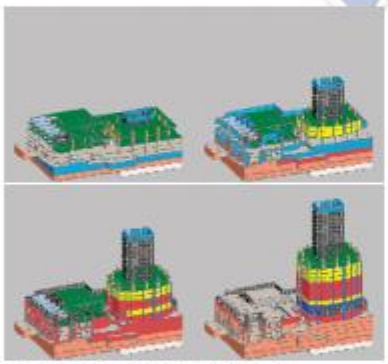


Projekter

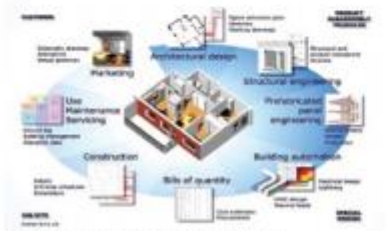
- Norge: http://iug.buildingsmart.org/resources/itm-and-iug-meetings-2013-munich/process-room/process-room-experiences
- Finland: Helsinki Music Centre



The new Helsinki Music Centre design, by LPR Architects, Helsinki, Finland uses BIM and is exploiting design collaboration using IFC.



BIM supports simulation of construction activities and integrated costing.
Images courtesy Webcor, San Francisco, USA



Product model based design vision adopted by Finnish construction industry.
Image courtesy ProIT, Helsinki, Finland

BETTER PLANNING AND CONTROL OF BUILDING CONSTRUCTION PROJECTS

through better collaboration, co-ordination and sharing of project information

The International Alliance for Interoperability (IAI) has spent the last 10 years establishing an open standard - IFC - for the use of object technology in construction and facilities management.

In the last two years IAI has turned its attention to broader issues of achieving beneficial change in industry, using Building Information Models (BIMs) and IFCs as the trigger to smarter ways of working. This is the origin of the rebranding last year of IAI as **buildingSMART**.

Under the **buildingSMART** banner, IAI is seeking alliances with other similarly motivated organisations to support processes which deliver faster, better, less expensive and more predictable results than can be achieved with traditional methods.

BuildingSMART = BIM + IFC

Building information modelling is a new approach to describing and displaying the information required for the design, construction and operation of built facilities. IFC provides a comprehensive specification for the totality of information within the lifecycle of a constructed facility

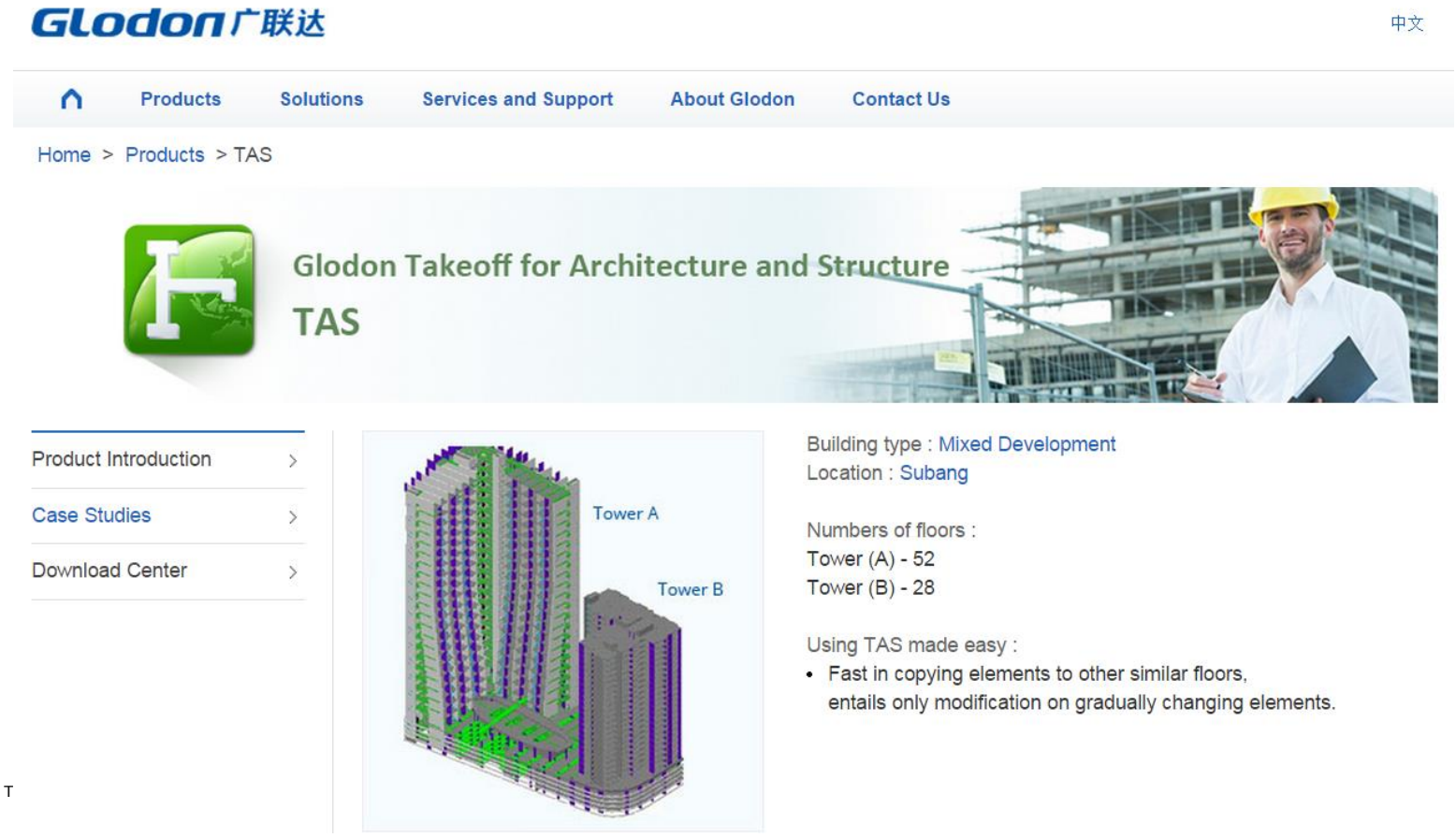
buildingSMART International Alliance for Interoperability

IAI International

www.buildingSMART.org.au

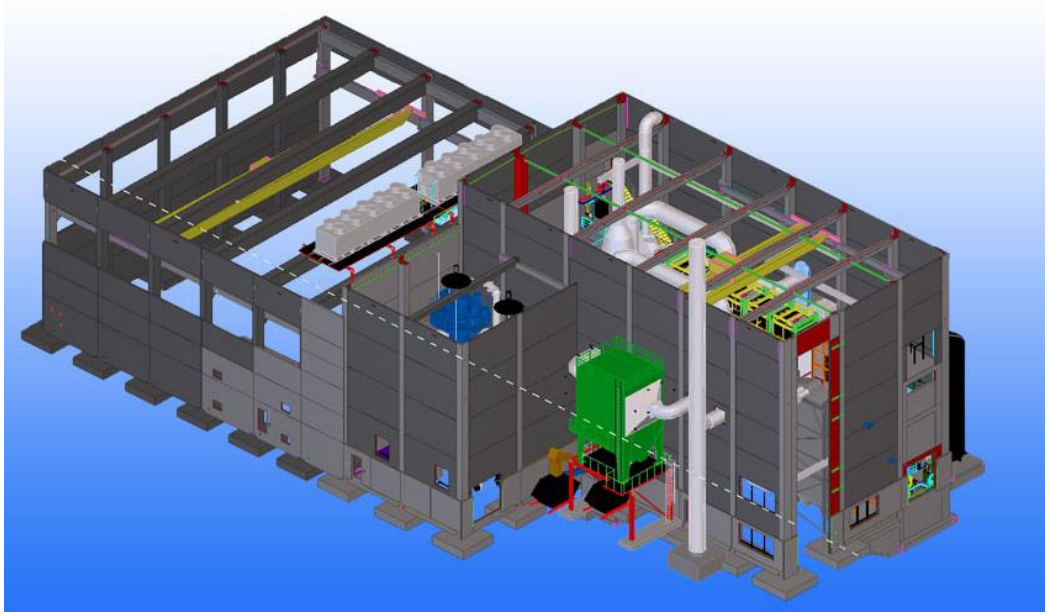
Projekter

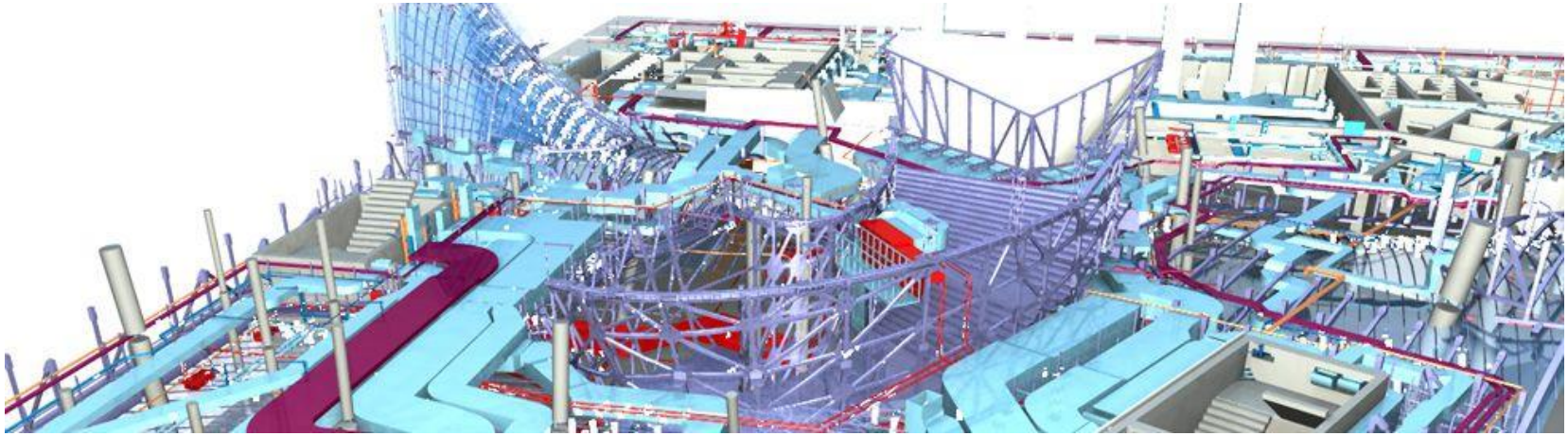
- Korea: http://bips.dk/files/bips.dk/article_files/4e_2010.pdf
- Kina



Projekter

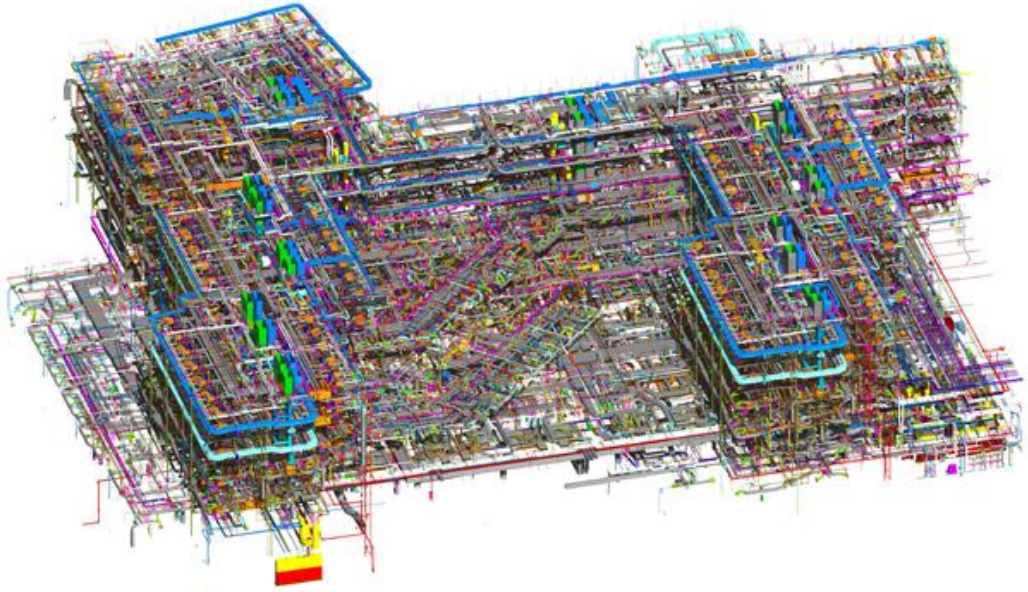
- Tyskland:
  - Meget 2D CAD
  - Undtagelser
    - Max Bögl
    - Hochtief
    - ..





Projekter

- USA
  - DPR



Projekter

- Mellemøsten: [ht
  oslo/process-ro
  2012/BIM%20](ht)
- Krav om BIM
  - Museum i Kairo

Udvikling
Præfabrikeret beton

Udvikling
Stål fabrikation

- One important element within IFC was the fact that by taking this format in to use it would bring the whole steel fabrication industry into the BIM workflow.